

Jan DELAVAL
Please Thanks!

Access DB# 87846

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Josephine YOUNG Examiner #: 79813 Date: 2/26/03
Art Unit: 1623 Phone Number: 301-605-1201 Serial Number: 09/926,413
Mail Box and Bldg/Room Location: 8D04 Results Format Preferred (circle): PAPER DISK E-MAIL
8819

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Amphiphile cyclodextrins, preparation and use thereof for solubilizing
Inventors (please provide full names): AUZELY-VELTY, Rachel organised systems and
PERLY, Bruno DJEDAINI-PILARD, Florence incorporating hydrophobic
molecules

Earliest Priority Filing Date: 4/29/1999

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Attached: 1) Pending Claims, 2) Bib Sheet, 3) Assignment Info
(17-34)

Please search claim 17, 27
see also claims 19-26

Thanks!

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

STAFF USE ONLY

Searcher: Jan
Searcher Phone #: 4498
Searcher Location: _____
Date Searcher Picked Up: 3/22/03
Date Completed: 3/22/03
Searcher Prep & Review Time: _____
Clerical Prep Time: 10
Online Time: 15

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) ☒ _____
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

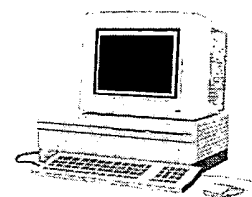
Vendors and cost where applicable

STN ☒ _____
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

BioTech-Chem Library

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms at the **Circulation Desk CM-1**, or send to Mary Hale, CM1-1E01 or e-mail mary.hale@uspto.gov.

=> fil reg

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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 21 MAR 2003 HIGHEST RN 500256-84-8
 DICTIONARY FILE UPDATES: 21 MAR 2003 HIGHEST RN 500256-84-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

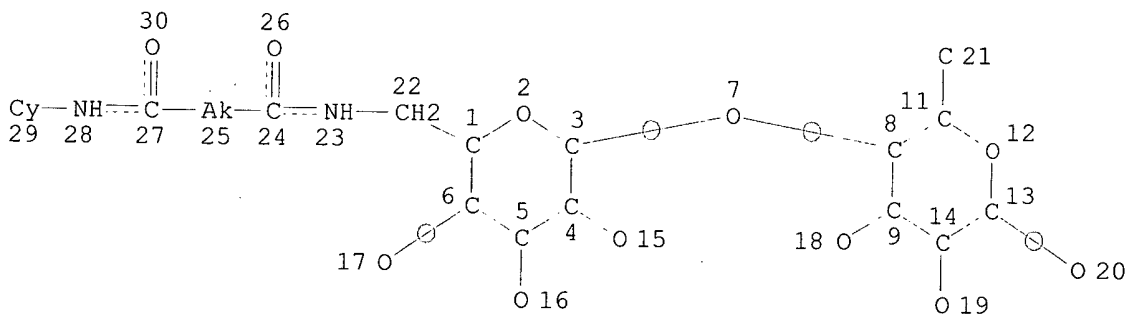
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L10

STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 GGCAT IS PCY AT 29
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L12 9 SEA FILE=REGISTRY SSS FUL L10
 L13 1 SEA FILE=REGISTRY ABB=ON PLU=ON L12 NOT C5-C6-C6-C6/ES
 L14 8 SEA FILE=REGISTRY ABB=ON PLU=ON L12 NOT L13

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 L14 8 S L12 NOT L13

FILE 'HCAOLD' ENTERED AT 13:35:40 ON 22 MAR 2003
 L15 0 S L14

FILE 'HCAPLUS' ENTERED AT 13:35:44 ON 22 MAR 2003.

Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

L16 4 S L14
L17 4 S L16 AND L1-L7

FILE 'USPATFULL, USPAT2' ENTERED AT 13:35:58 ON 22 MAR 2003
L18 0 S L14

FILE 'REGISTRY' ENTERED AT 13:36:15 ON 22 MAR 2003

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L14 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 324020-41-9 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with sodium 4-(1,1-dimethylethyl)benzoate (1:1) (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 4-(1,1-dimethylethyl)-, sodium salt, compd. with 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-.beta.-cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C86 H146 N2 O36 . C11 H14 O2 . Na

SR CA

LC STN Files: CA, CAPLUS

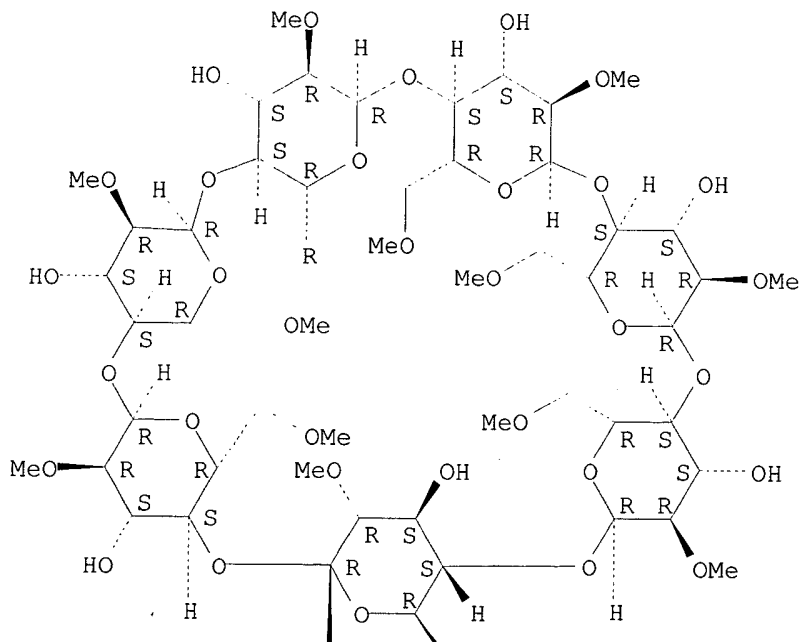
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CRN 269745-79-1

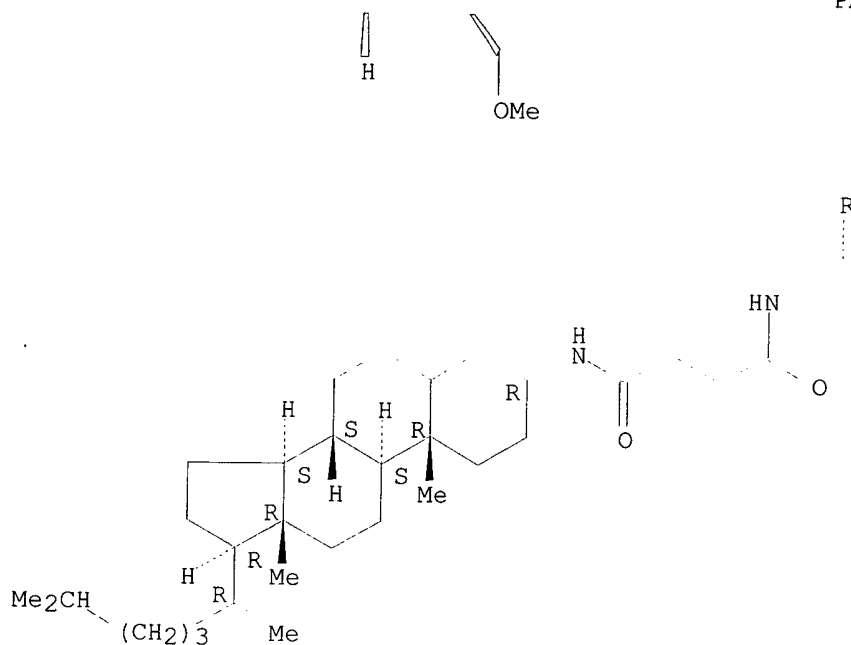
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



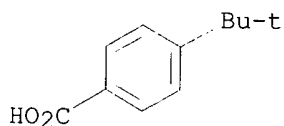
PAGE 2-A



CM 2

CRN 17264-53-8 (98-73-7)

CMF C11 H14 O2 . Na



● Na

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:147764

L14 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 324020-40-8 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with sodium dodecyl sulfate (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sulfuric acid monododecyl ester sodium salt, compd. with
6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-
2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-.beta.-
cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C86 H146 N2 O36 . C12 H26 O4 S . Na

SR	CA
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LC STN Files: CA, CAPLUS

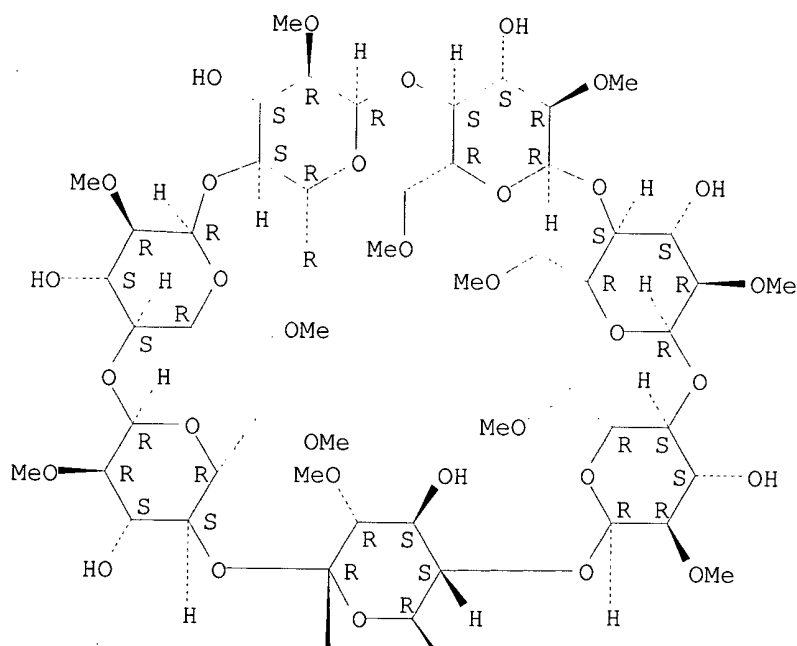
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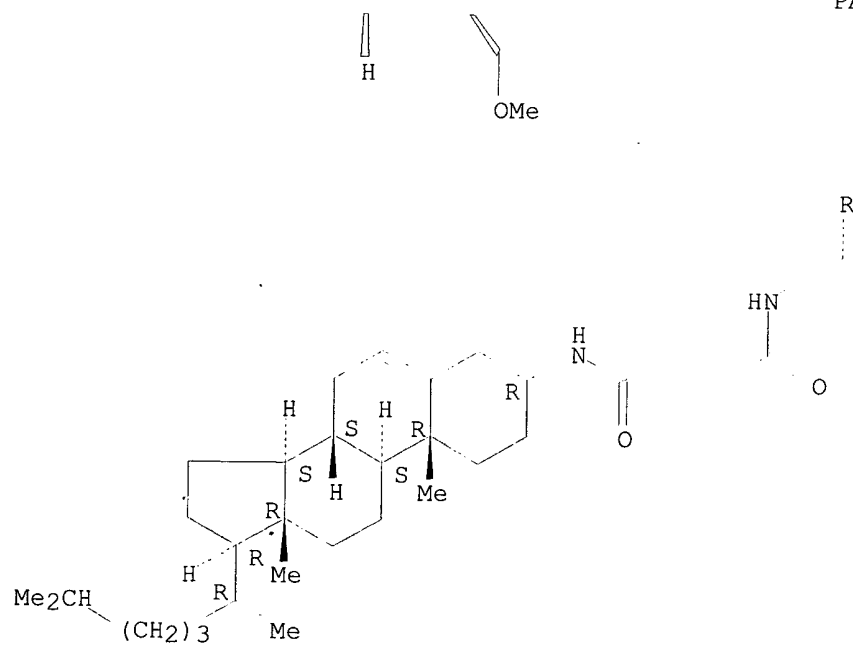
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 151-21-3 (151-41-7)
CMF C12 H26 O4 S . Na

HO₃SO⁻ (CH₂)₁₁-Me

● Na

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:147764

L14 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 324020-39-5 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with 2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acetamide, 2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-, compd. with 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-.beta.-cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C86 H146 N2 O36 . C11 H12 C12 N2 O5

SR CA

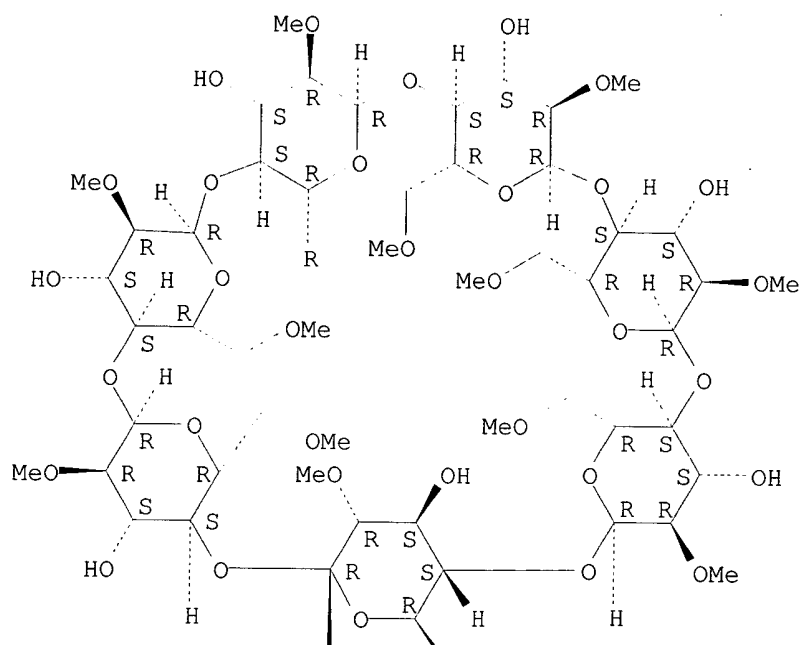
LC STN Files: CA, CAPLUS

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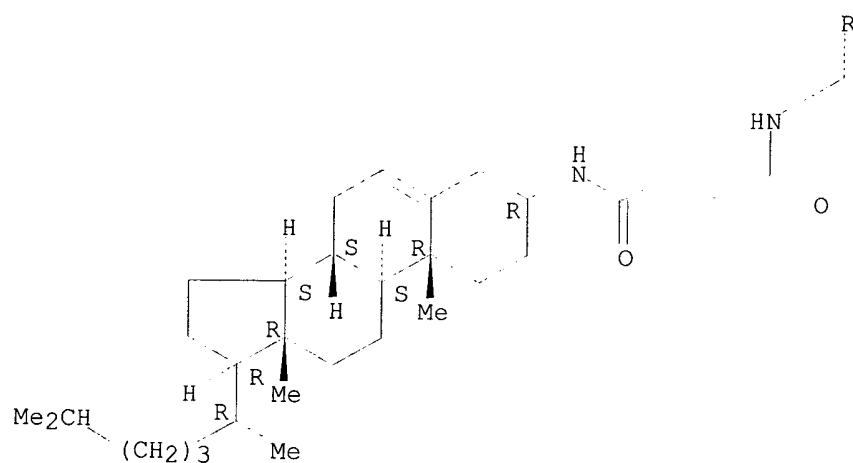
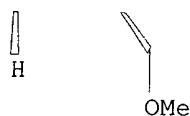
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CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

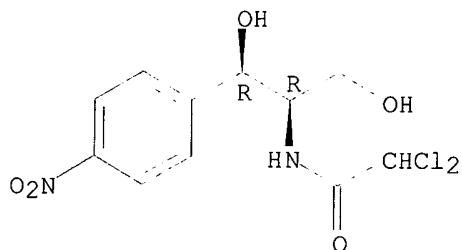


CM 2

CRN 56-75-7

CMF C11 H12 C12 N2 O5

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:147764

L14 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 324020-37-3 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with (3Z)-3-dibenzo[b,e]thiepin-11(6H)-ylidene-N,N-dimethyl-1-propanamine hydrochloride (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanamine, 3-dibenzo[b,e]thiepin-11(6H)-ylidene-N,N-dimethyl-, hydrochloride, (3Z)-, compd. with 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-.beta.-cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C86 H146 N2 O36 . C19 H21 N S . C1 H

SR CA

LC STN Files: CA, CAPLUS

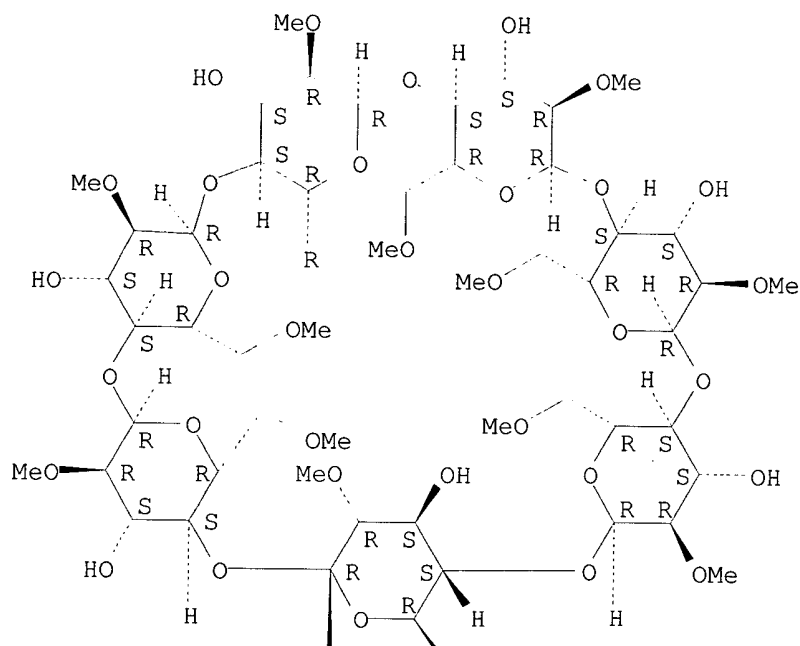
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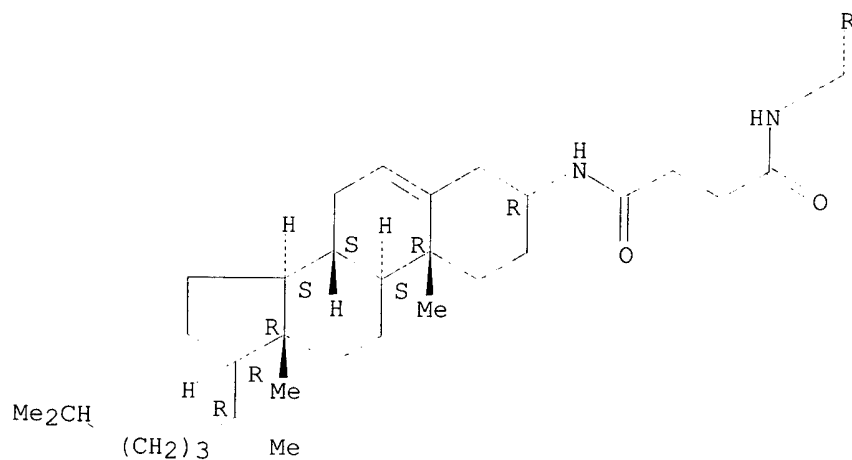
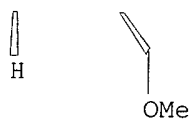
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



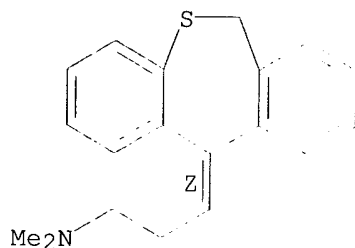
PAGE 2-A



CM 2

CRN 25627-39-8 (25627-38-7)
CMF C19 H21 N S . C1 H

Double bond geometry as shown.



● HCl

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:147764

L14 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 324020-36-2 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with methyl .alpha.-D-mannopyranoside (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN .alpha.-D-Mannopyranoside, methyl, compd. with 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-.beta.-cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C86 H146 N2 O36 . C7 H14 O6

SR CA

LC STN Files: CA, CAPLUS

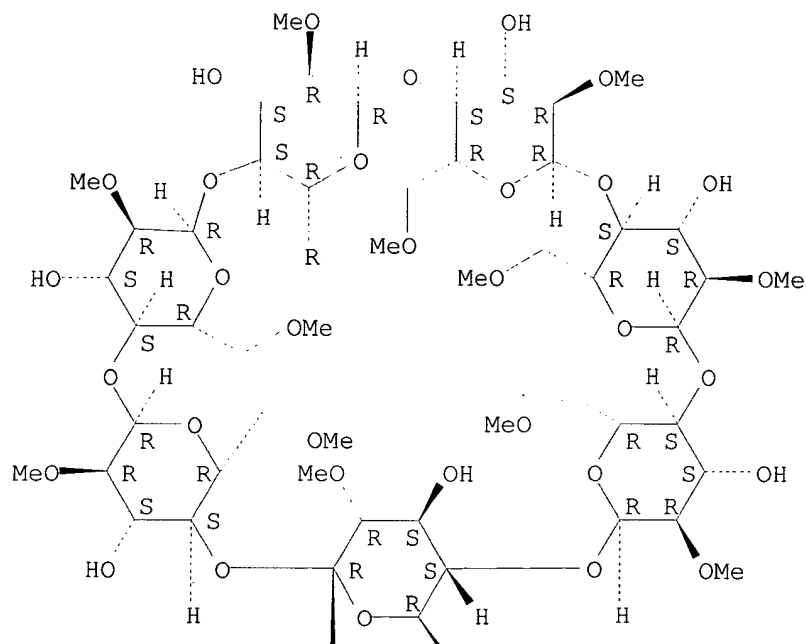
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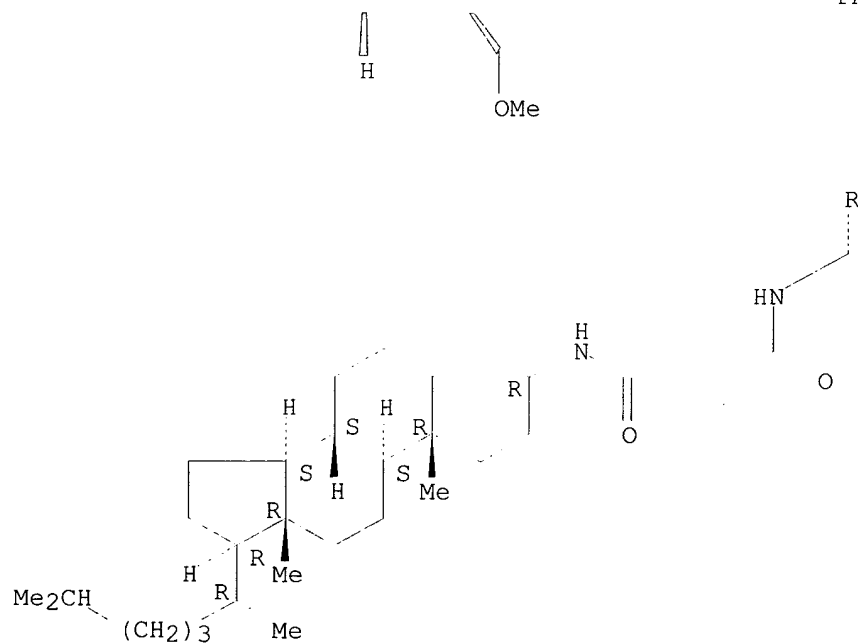
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



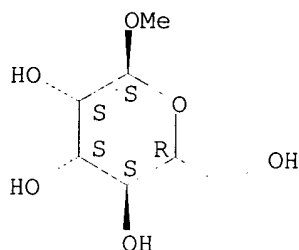
PAGE 2-A



CM 2

CRN 617-04-9
CMF C7 H14 O6

Absolute stereochemistry.



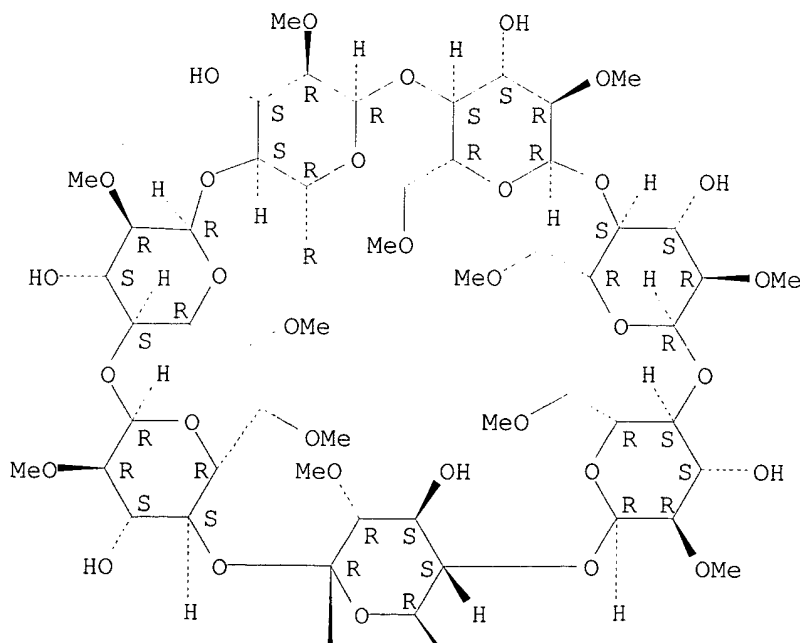
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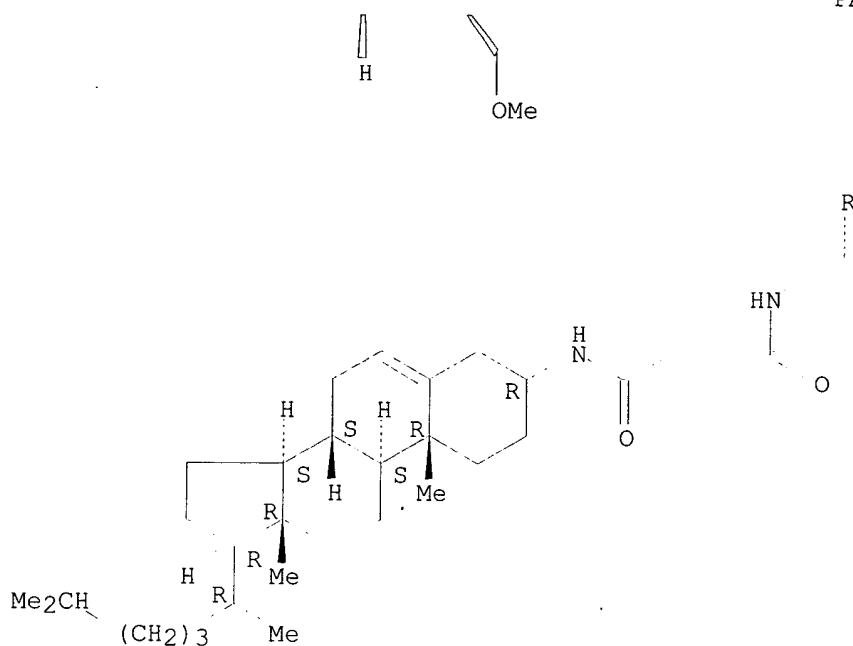
L14 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2003 ACS
RN 269745-79-1 REGISTRY
CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C86 H146 N2 O36
CI COM
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:351719

REFERENCE 2: 132:347811

L14 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2003 ACS

RN 250256-28-1 REGISTRY

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-, compd. with (7R)-4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxotetradecyl)oxy]-3,5,9-trioxa-4-phosphatricosan-1-aminium inner salt 4-oxide (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxotetradecyl)oxy]-, inner salt, 4-oxide, (7R)-, compd. with 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-.beta.-cyclodextrin (1:1) (9CI)

FS STEREOSEARCH

MF C73 H120 N2 O36 . C36 H72 N O8 P

SR CA

LC STN Files: CA, CAPLUS

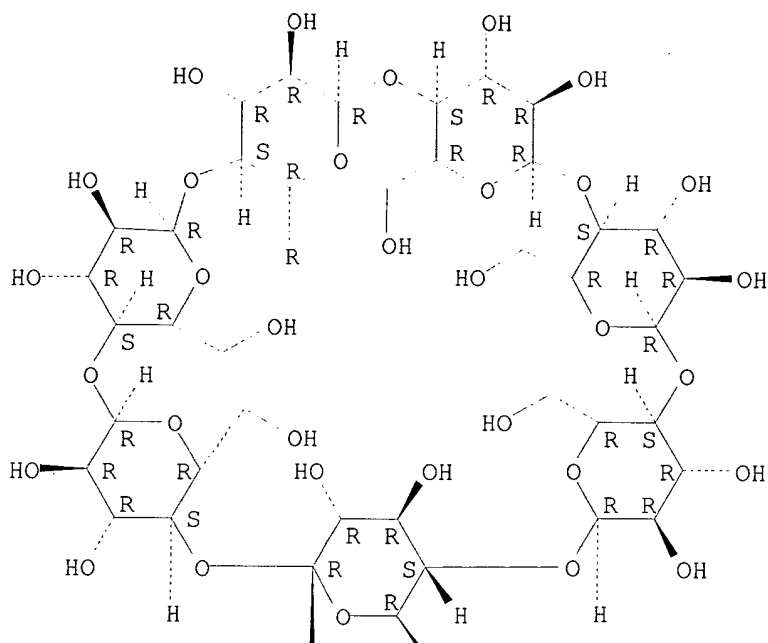
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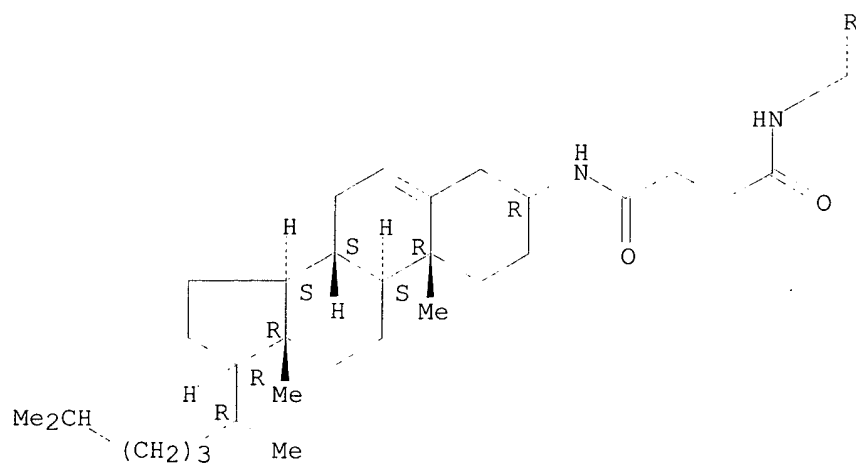
CMF C73 H120 N2 O36

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

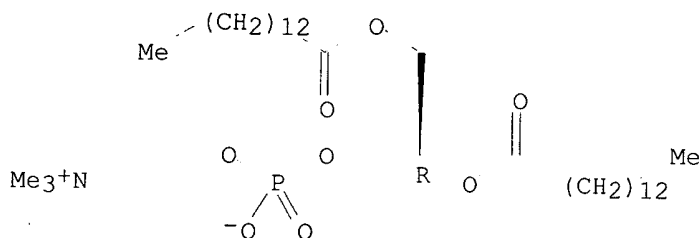


CM 2

CRN 18194-24-6

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Absolute stereochemistry.



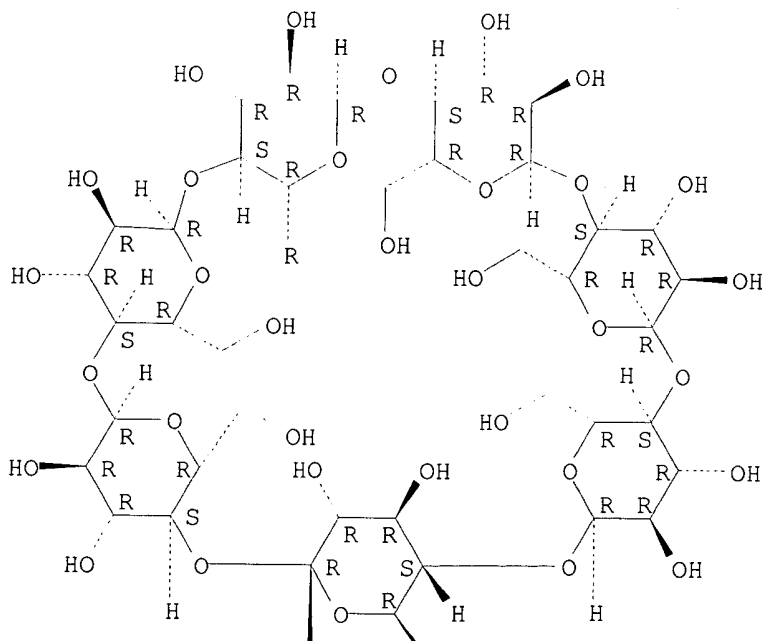
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1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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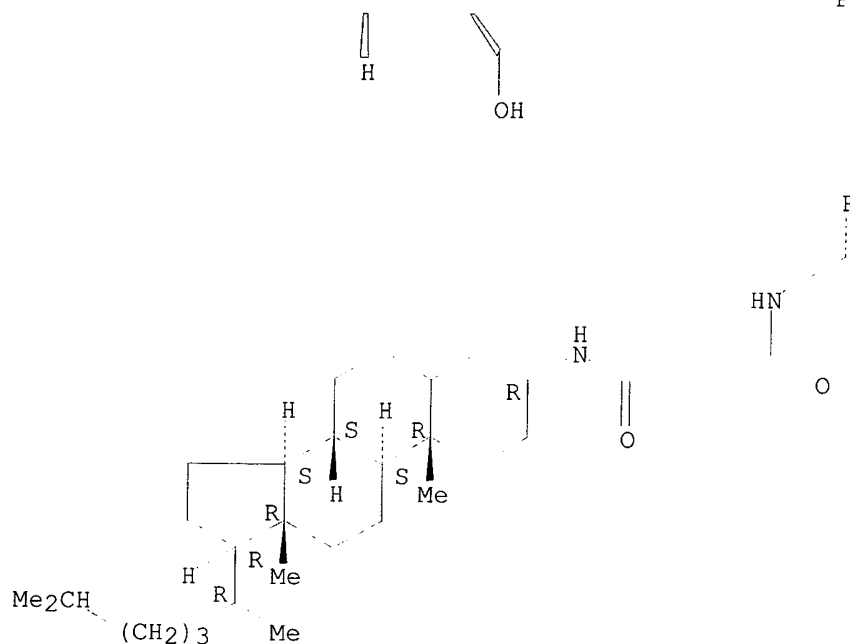
L14 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2003 ACS
RN 250256-27-0 REGISTRY
CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C73 H120 N2 O36
CI COM
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 132:347811

REFERENCE 2: 131:351563

=> fil hcaplus

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FILE COVERS 1907 - 22 Mar 2003 VOL 138 ISS 13

FILE LAST UPDATED: 21 Mar 2003 (20030321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L17 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:884126 HCAPLUS

DN 134:147764
 TI Micellization of Hydrophobically Modified Cyclodextrins: 2. Inclusion of Guest Molecules
 AU **Auzely-Velty, R.**; Pean, C.; Djedaini-Pilard, F.; Zemb, Th.; **Perly, B.**
 CS Service de Physico-Chimie Analytique, Institut de Recherches SERVIER, Suresnes, 92150, Fr.
 SO Langmuir (2001), 17(2), 504-510
 CODEN: LANGD5; ISSN: 0743-7463
 PB American Chemical Society
 DT Journal
 LA English
 CC 33-4 (Carbohydrates)
 Section cross-reference(s): 46
 AB The assocn. of guest mols. in aggregates of a modified cyclodextrin, 6I-(cholest-5-en-3.alpha.-ylamido)succinylamido-6I-deoxy-per(2,6-di-O-methyl)cyclomaltoheptaose, was investigated for four different sparingly water-sol. mols. and an anionic surfactant (sodium dodecyl sulfate). The binding and spatial proximities were demonstrated for these different guests by NMR (nuclear Overhauser effect pumping). By use of small-angle X-ray and neutron scattering, the microstructure at the supramol. scale of the modified cyclodextrin micelle, i.e., aggregation no., charge, and vol., in the presence of guest mols. could be defined. From the anal. of the variations in terms of aggregation no. and charge induced by the presence of the guest mol., the cavity of the cyclodextrin was shown to remain available for solubilization and transport. The stability and specificity of the mixed micelle involving target mols. demonstrated here make these hydrophobically modified cyclodextrins good candidates as mol. carriers.
 ST cyclic oligosaccharide inclusion prepn NMR micelle; cyclodextrin inclusion prepn NMR micelle
 IT Oligosaccharides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (cyclic; micellization and inclusion of hydrophobically modified cyclodextrins)
 IT Inclusion reaction
 Micelles
 (micellization and inclusion of hydrophobically modified cyclodextrins)
 IT Inclusion compounds
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (micellization and inclusion of hydrophobically modified cyclodextrins)
 IT 324020-30-6P 324020-32-8P 324020-33-9P 324020-34-0P 324020-35-1P
 324020-36-2P 324020-37-3P 324020-39-5P
 324020-40-8P 324020-41-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (micellization and inclusion of hydrophobically modified cyclodextrins)
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
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 (2) Auzely-Velty, R; Langmuir 2000, V16, P3727 HCAPLUS
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 (4) Chen, A; J Am Chem Soc 1998, V120, P10258 HCAPLUS
 (5) Cotton, J; Neutron, X-ray and light scattering: introduction to an investigation tool for colloidal and polymeric systems 1990, P19
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 (17) Wu, D; J Magn Reson 1995, VA115, P260
 (18) Zemb, T; J Phys 1985, V46, P249 HCAPLUS

IT 324020-36-2P 324020-37-3P 324020-39-5P

324020-40-8P 324020-41-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (micellization and inclusion of hydrophobically modified cyclodextrins)

RN 324020-36-2 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with methyl .alpha.-D-mannopyranoside (1:1) (9CI) (CA INDEX NAME)

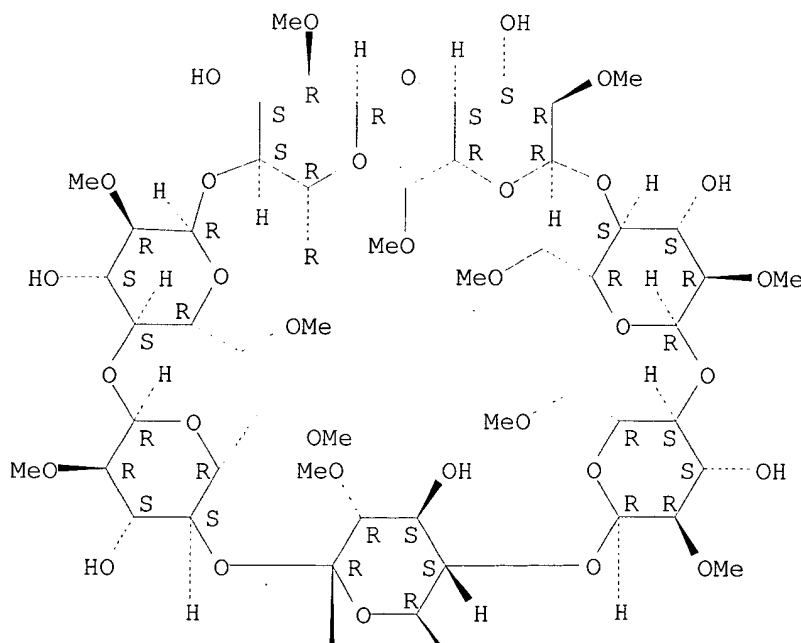
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CRN 269745-79-1

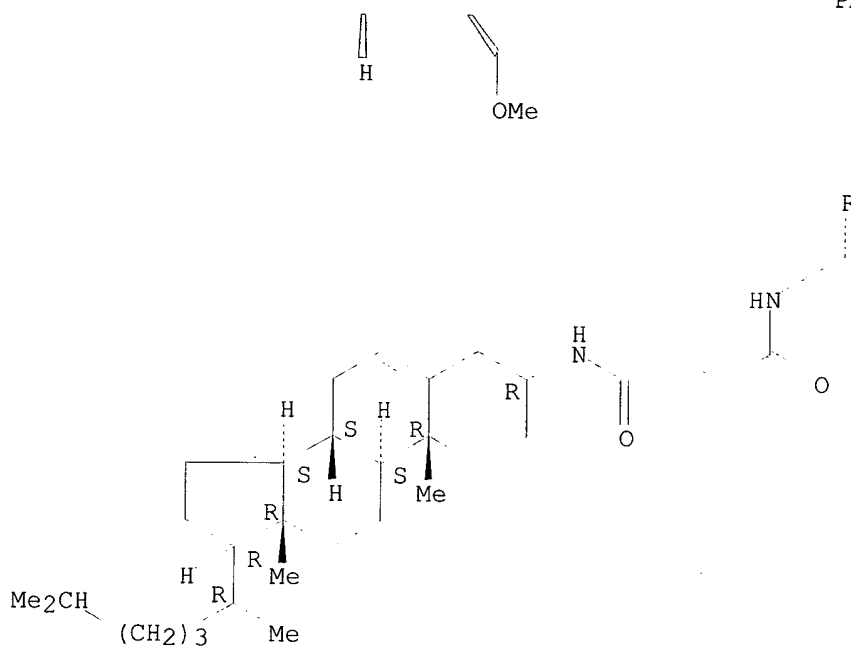
CMF C86 H146 N2 O36

Absolute stereochemistry.

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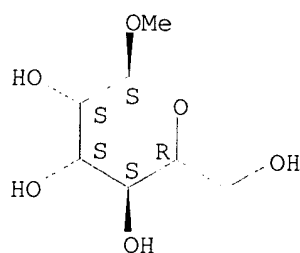


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CRN 617-04-9

CMF C7 H14 O6

Absolute stereochemistry.



RN 324020-37-3 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with (3Z)-3-dibenzo[b,e]thiepin-11(6H)-ylidene-N,N-dimethyl-1-propanamine hydrochloride (1:1) (9CI) (CA INDEX NAME)

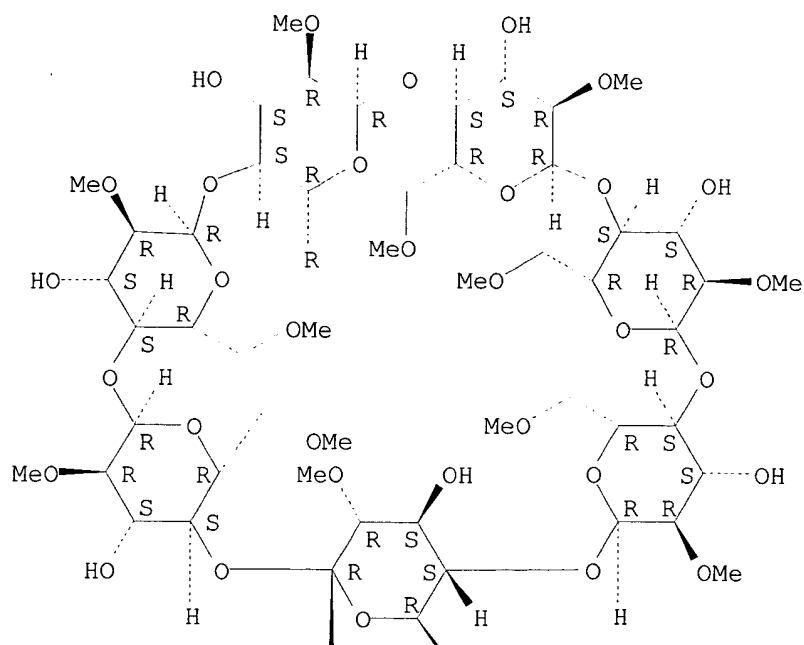
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CRN 269745-79-1

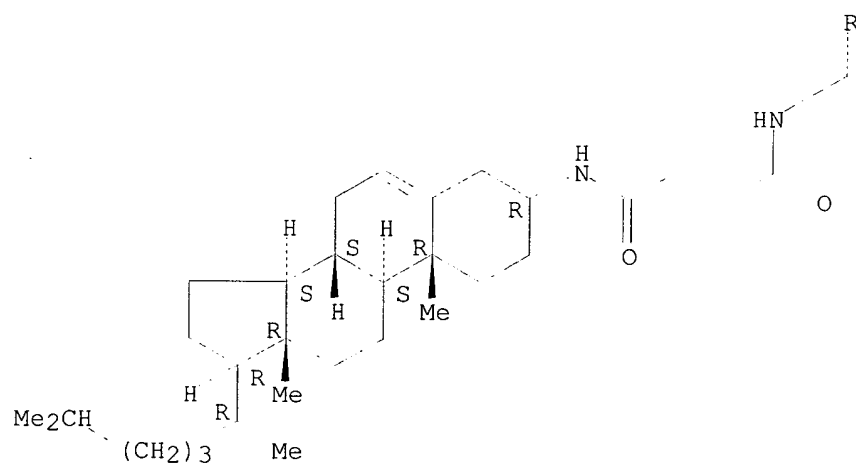
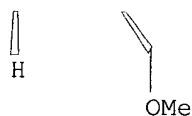
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

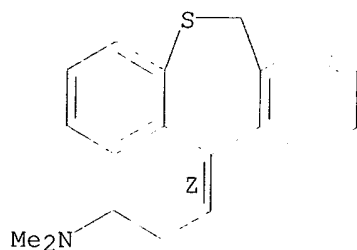


CM 2

CRN 25627-39-8

CMF C19 H21 N S . C1 H

Double bond geometry as shown.



● HCl

RN 324020-39-5 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with 2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide (1:1) (9CI) (CA INDEX NAME)

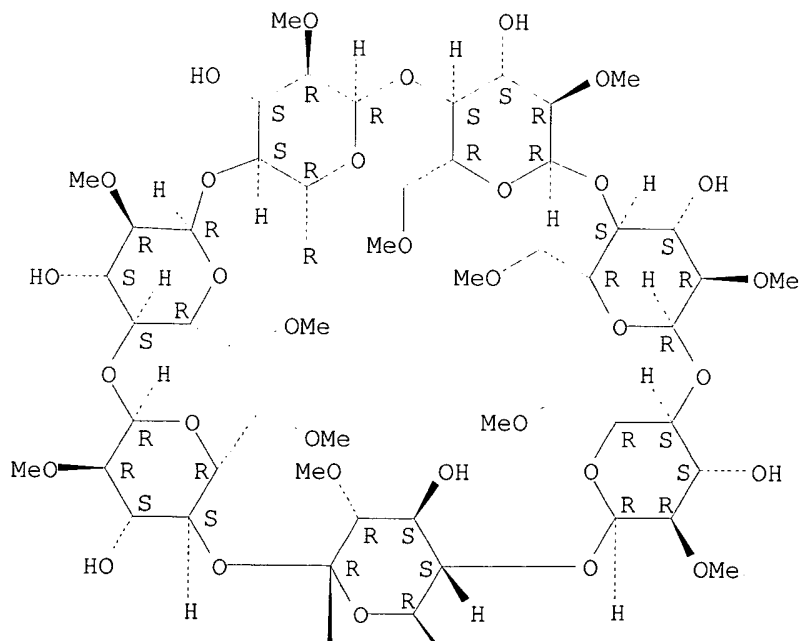
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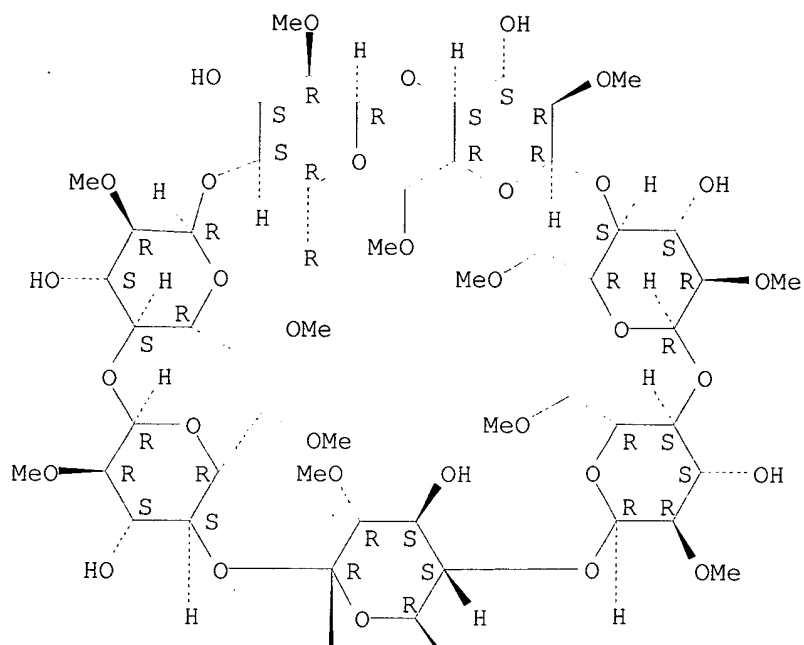
CMF C86 H146 N2 O36

Absolute stereochemistry.

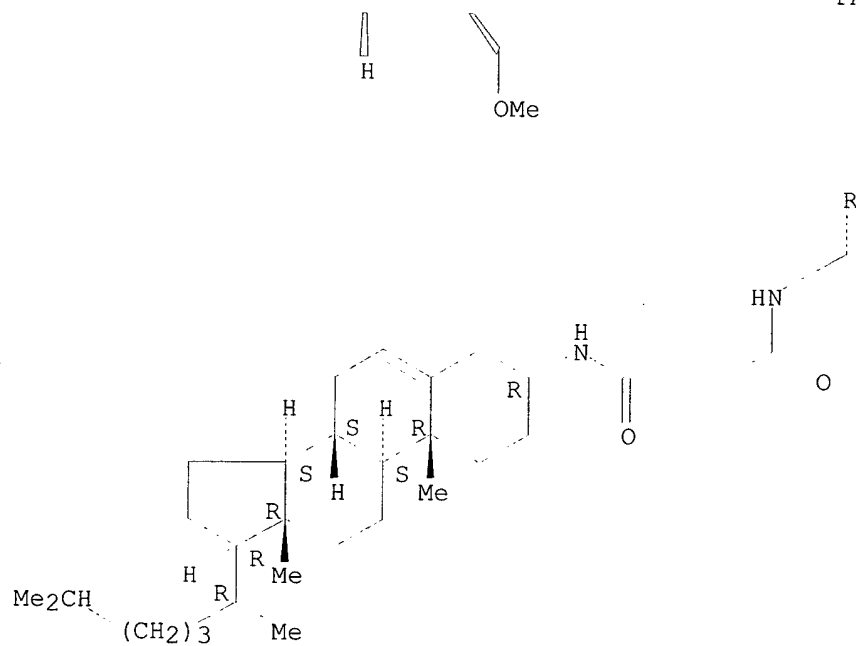
PAGE 1-A



PAGE 1-A



PAGE 2-A



CM 2

CRN 151-21-3

CMF C12 H26 O4 S . Na

HO₃SO-(CH₂)₁₁-Me

● Na

RN 324020-41-9 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl-, compd. with sodium 4-(1,1-dimethylethyl)benzoate (1:1) (9CI)
(CA INDEX NAME)

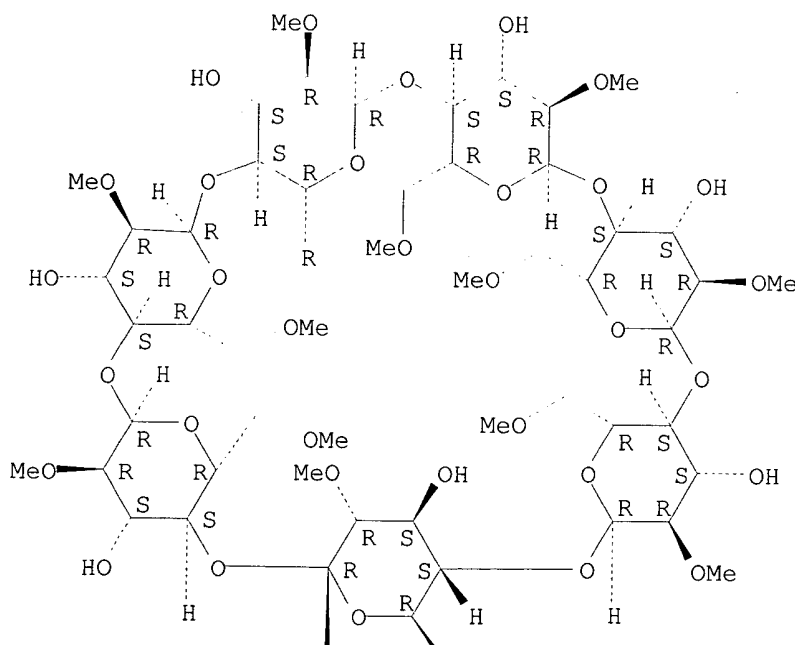
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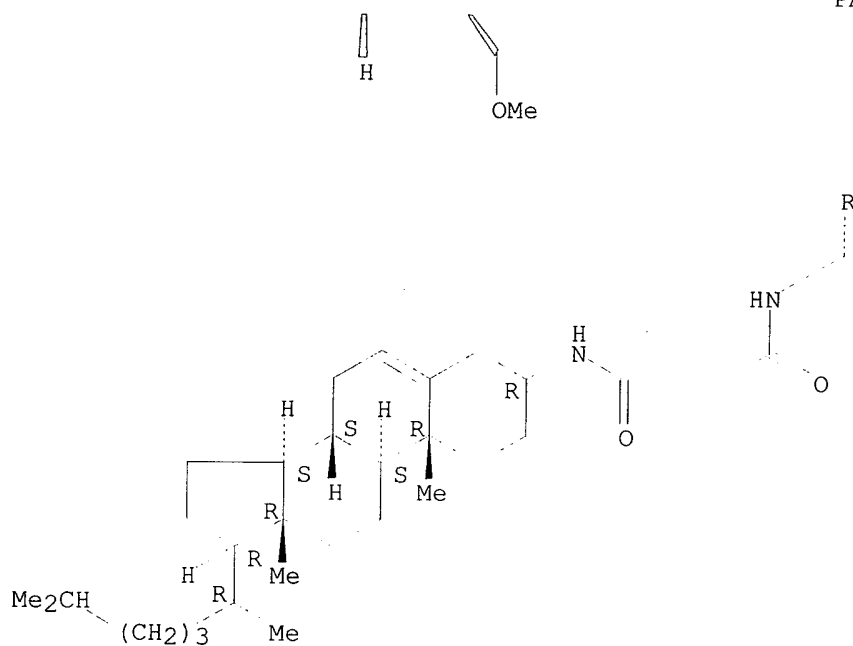
CMF C86 H146 N2 O36

Absolute stereochemistry.

PAGE 1-A



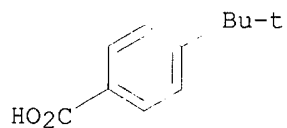
PAGE 2-A



CM 2

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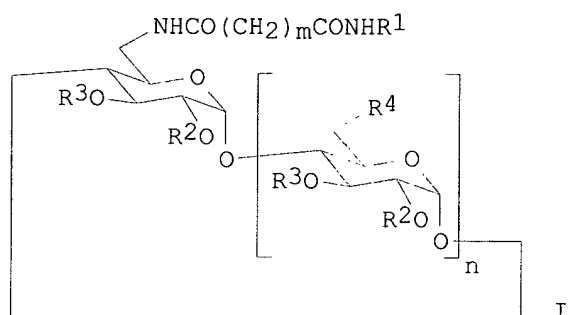
CMF C11 H14 O2 . Na



● Na

L17 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 2000:790552 HCAPLUS
 DN 133:351719
 TI Amphiphilic cyclodextrins, their preparation and use for solubilizing and transporting hydrophobic molecules in aqueous media
 IN **Auzely-Velty, Rachel; Perly, Bruno; Djedaini-Pilard, Florence**
 PA Commissariat a l'Energie Atomique, Fr.
 SO PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 IC ICM C08B037-16
 CC 44-6 (Industrial Carbohydrates)
 Section cross-reference(s): 62, 63
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE

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	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2792942	A1	20001103	FR 1999-5460	19990429 <--
	FR 2792942	B1	20010608		
	EP 1177217	A1	20020206	EP 2000-922751	20000426 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002543249	T2	20021217	JP 2000-615663	20000426 <--
PRAI	FR 1999-5460	A	19990429 <--		
	WO 2000-FR1102	W	20000426 <--		
OS	MARPAT 133:351719				
GI					



- AB Cyclodextrin derivs. of formula I [R1 = steroid residue; R2 = (un)substituted alkyl or aryl; R3 = H, R2; R4 = OR2, or 1 R4 = NHCO(CH2)mCONHR1] are useful for transporting hydrophobic mols. for pharmaceutical or cosmetic uses, by forming organized systems in an aq. medium, independently or assocd. with phospholipids. Thus, 6-azido-6-deoxy-.beta.-cyclodextrin was methylated on the OH groups in the 2 and 6 positions to a tridecamethyl ether, which was converted to the amine, treated with succinic anhydride, and the product amidated with cholest-5-en-3.alpha.-ylamine to give I (R1 = cholest-5-en-3.alpha.-yl, R2 = Me, R3 = H, R4 = OMe, m = 2, n = 6) (II). An aq. soln. of II at a concn. above its crit. micelle concn. formed spherical nanoparticles of diam. 60 .ANG., which could form inclusion compds. with fatty acids and other hydrophobic mols.
- ST cyclodextrin steroidal deriv amphiphilic; hydrophobic mol transport aq system
- IT Phospholipids, properties
RL: PRP (Properties)
(mixed systems with amphiphilic cyclodextrins)
- IT Nanoparticles
(of amphiphilic cyclodextrins)
- IT **269745-79-1P**
RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amphiphilic cyclodextrins for solubilizing and transporting hydrophobic mols. in aq. media)
- IT 56-75-7D, Chloramphenicol, inclusion compds. with amphiphilic cyclodextrins
113-53-1D, inclusion compds. with amphiphilic cyclodextrins
531-75-9D, Esculine, inclusion compds. with amphiphilic cyclodextrins
11103-57-4D, Vitamin A, inclusion compds. with amphiphilic cyclodextrins

RL: PRP (Properties)
 (amphiphilic cyclodextrins for solubilizing and transporting hydrophobic mols. in aq. media)

IT 116754-83-7D, inclusion compds. with amphiphilic cyclodextrins
 RL: PRP (Properties)
 (contrast agent; amphiphilic cyclodextrins for solubilizing and transporting hydrophobic mols. in aq. media)

IT 18194-24-6, Dimyristoylphosphatidylcholine
 RL: PRP (Properties)
 (mixed systems with amphiphilic cyclodextrins)

IT 108-30-5, Succinic anhydride, reactions 14735-32-1 98169-85-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of amphiphilic cyclodextrins)

IT 133125-60-7P 133125-61-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of amphiphilic cyclodextrins)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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(2) Commisariat A L'Energie Atomique; EP 0751150 A 1997 HCAPLUS

(3) Sederma Sa; FR 2681868 A 1993 HCAPLUS

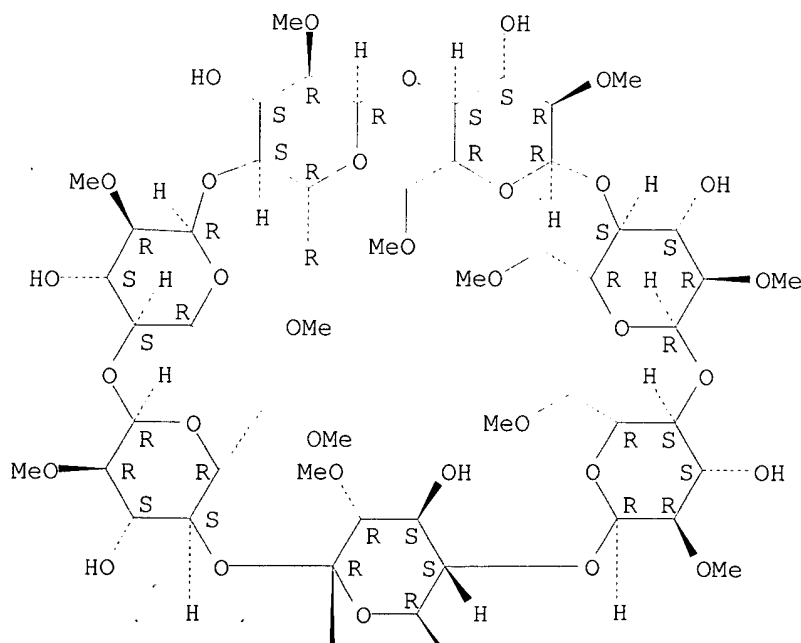
IT **269745-79-1P**
 RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amphiphilic cyclodextrins for solubilizing and transporting hydrophobic mols. in aq. media)

RN 269745-79-1 HCAPLUS

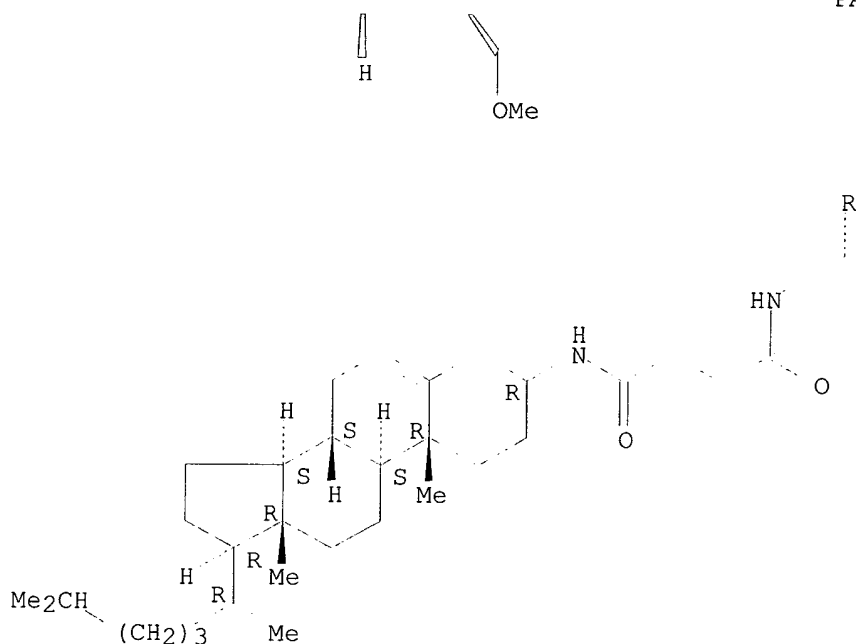
CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



- L17 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 2000:164867 HCAPLUS
 DN 132:347811
 TI Micellization of Hydrophobically Modified Cyclodextrins. 1. Micellar Structure
 AU **Auzely-Velty, R.**; Djedaieni-Pilard, F.; Desert, S.; **Perly, B.**; Zemb, Th.
 CS Service de Chimie Moléculaire DRECAM CEA Saclay, Gif sur Yvette, F-91191, Fr.
 SO Langmuir (2000), 16(8), 3727-3734
 CODEN: LANGD5; ISSN: 0743-7463
 PB American Chemical Society
 DT Journal
 LA English
 CC 33-4 (Carbohydrates)
 Section cross-reference(s): 1, 22, 32
 AB The grafting of a cholesterol deriv. onto a methylated cyclodextrin through a spacer arm produces an amphiphilic compd. exhibiting high soly. in water. This new mol. was fully characterized in terms of chem. and optical purities by high resoln. NMR and mass spectrometry. An anal. of its behavior in aq. soln. using surface tension measurements and light, small-angle X-ray, and neutron scattering techniques proved that it self-assembles into monodisperse spherical micelles with an av. aggregation no. of 24. The micelles can be described as two-shell objects, the cyclodextrin moieties being exposed to the aq. medium, making them prone to include guest mols. in the cavities. These objects can therefore be of high interest for the targeting of biol. important mols. and esp. for the delivery of drugs.
 ST drug delivery cholesterol cyclodextrin prepn micelle hydrophobicity; amphiphile hydrophobicity micelle cyclodextrin cholesterol prepn; cyclic oligosaccharide cholesterol hydrophobicity micelle interfacial tension prepn; cholesterol cyclodextrin prepn micelle hydrophobicity soly
 IT Oligosaccharides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (cyclic; prepn. and micellization of hydrophobically modified

- cyclodextrins)
- IT Amphiphiles
Drug delivery systems
Hydrophobicity
Interfacial tension
Micelles
(prepn. and micellization of hydrophobically modified cyclodextrins)
- IT 7585-39-9, .beta.-Cyclodextrin 51166-71-3, DIMEB 186800-68-0
220279-81-2 250256-26-9 **250256-27-0**
RL: PRP (Properties)
(prepn. and micellization of hydrophobically modified cyclodextrins)
- IT **269745-79-1P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and micellization of hydrophobically modified cyclodextrins)
- IT 693-13-0, Diisopropylcarbodiimide 14735-32-1 98169-85-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and micellization of hydrophobically modified cyclodextrins)
- IT 133125-60-7P 133125-61-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and micellization of hydrophobically modified cyclodextrins)
- RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Auzely-Velty, R; Carbohydr Res 1999, V318, P82 HCAPLUS
 - (2) Bardez, E; Langmuir 1995, V11, P3374 HCAPLUS
 - (3) Berthault, P; New trends in cyclodextrins and derivatives 1991, P215
 - (4) Cabane, B; Surfactant solutions: new methods of investigation 1987, P57 HCAPLUS
 - (5) Cantu, L; J Phys Chem B 1998, V102, P5737 HCAPLUS
 - (6) Cecutti, C; Langmuir 1991, V7, P2580 HCAPLUS
 - (7) Chevalier, Y; Rep Prog Phys 1990, V53, P279 HCAPLUS
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 - (11) Djedaini-Pilard, F; J Chem Soc, Perkin Trans 2 1995, P723
 - (12) Fromming, K; Cyclodextrins in pharmacy 1994, P1
 - (13) Gershfeld, N; Faraday Discuss Chem Soc 1986, V81, P19 HCAPLUS
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 - (16) Hwang, T; J Magn Reson Ser B 1993, V102, P155 HCAPLUS
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 - (26) Ling, C; J Chem Soc, Chem Commun 1993, P438 HCAPLUS
 - (27) Rosen, M; Surfactants and interfacial phenomena, 2nd ed 1989
 - (28) Spencer, C; J Chem Soc, Perkin Trans 2 1987, P1323 HCAPLUS
 - (29) Thomas, J; J Colloid Interface Sci 1997, V117, P187
 - (30) Uekama, K; Cyclodextrin and their industrial uses 1987, P395
 - (31) Wenz, G; Angew Chem, Int Ed Engl 1994, V33, P803
 - (32) Yabe, A; Chem Lett 1988, P1 HCAPLUS
 - (33) Yabe, A; Thin Solid Films 1988, V160, P33 HCAPLUS
 - (34) Zemb, T; J Phys 1985, V46, P249 HCAPLUS
 - (35) Zemb, T; Submitted for publication
- IT **250256-27-0**

RL: PRP (Properties)

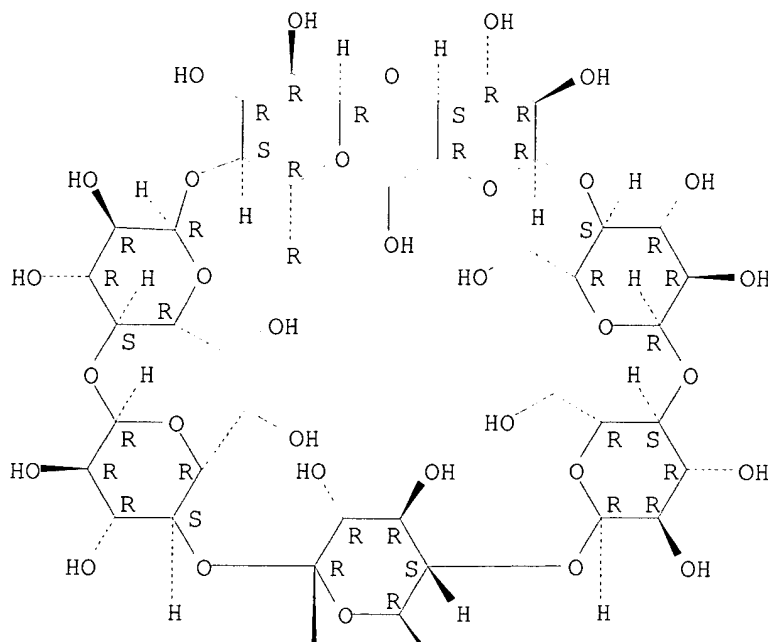
(prepn. and micellization of hydrophobically modified cyclodextrins)

RN 250256-27-0 HCAPLUS

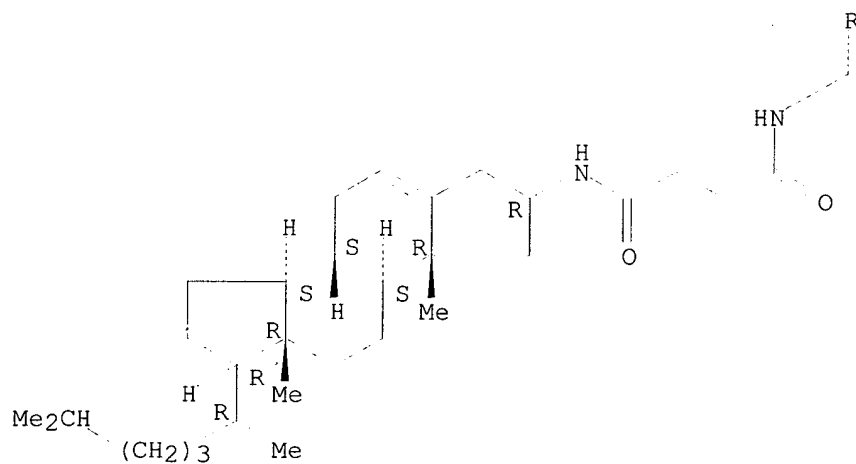
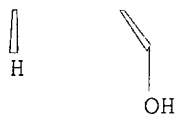
CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IT 269745-79-1P

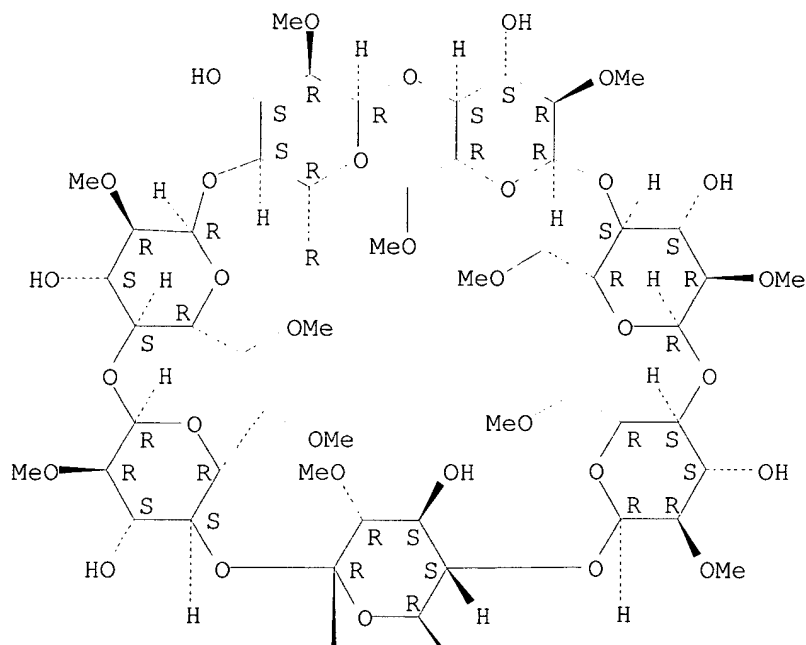
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and micellization of hydrophobically modified cyclodextrins)

RN 269745-79-1 HCAPLUS

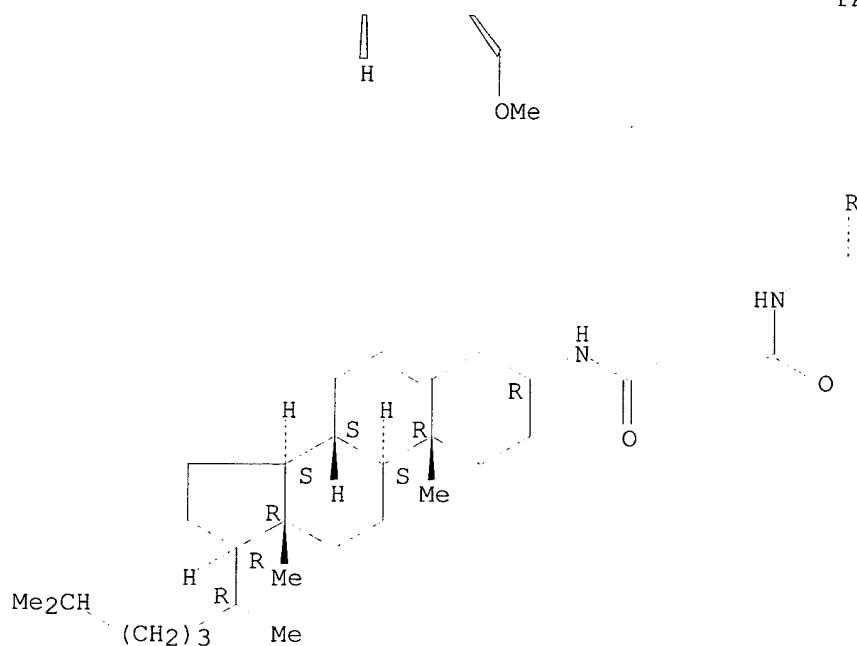
CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-2A,2B,2C,2D,2E,2F,2G,6B,6C,6D,6E,6F,6G-trideca-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



- L17 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 1999:568419 HCAPLUS
 DN 131:351563
 TI Cholesteryl-cyclodextrins: synthesis and insertion into phospholipid membranes
 AU **Auzely-Velty, R.; Perly, B.; Tache, O.; Zemb, T.; Jehan, P.; Guenot, P.; Dalbiez, J.-P.; Djedaini-Pilard, F.**
 CS CEA Saclay, Service de Chimie Moléculaire DRECAM, Gif sur Yvette, F-91191, Fr.
 SO Carbohydrate Research (1999), 318(1-4), 82-90
 CODEN: CRBRAT; ISSN: 0008-6215
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 CC 33-4 (Carbohydrates)
 Section cross-reference(s): 6, 32
 AB 6I-(Cholest-5-en-3.beta.-yloxycarbonyl)amino-6I-deoxycyclomaltoheptaose and 6I-(cholest-5-en-3.alpha.-ylamido)succinylamido-6I-deoxycyclomaltoheptaose were synthesized and fully characterized by NMR spectroscopy expts. and mass spectrometry anal. Incorporation of these monosubstituted amphiphilic cyclodextrins into phospholipid bilayers was investigated using small-angle X-ray scattering, differential scanning calorimetry and ³¹P NMR. Different modes of incorporation depending on the spacer length between the cyclodextrin and cholesterol moieties were obsd.
 ST bilayer insertion phospholipid membrane amphiphilic cyclodextrin cholesteryl synthesis; cholesteryl cyclodextrin synthesis insertion phospholipid membrane myristoylphosphatidylcholine DMPC
 IT Membrane, biological
 (bilayer; cholesterylcyclodextrins synthesis and insertion into phospholipid membranes)
 IT Membrane, biological
 (cholesterylcyclodextrins synthesis and insertion into phospholipid membranes)
 IT Phospholipids, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

IT Oligosaccharides, preparation

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(cyclic; cholesteryl-cyclodextrins synthesis and insertion into phospholipid membranes)

IT 250256-28-1P 250256-29-2P

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

IT 7144-08-3 14735-32-1 29390-67-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

IT 136790-52-8P 250256-26-9P 250256-27-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
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IT 250256-28-1P

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP

(Preparation); PROC (Process)

(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

RN 250256-28-1 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy-, compd. with (7R)-4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxotetradecyl)oxy]-3,5,9-trioxa-4-phosphatricosan-1-aminium inner salt 4-oxide (1:1) (9CI) (CA INDEX NAME)

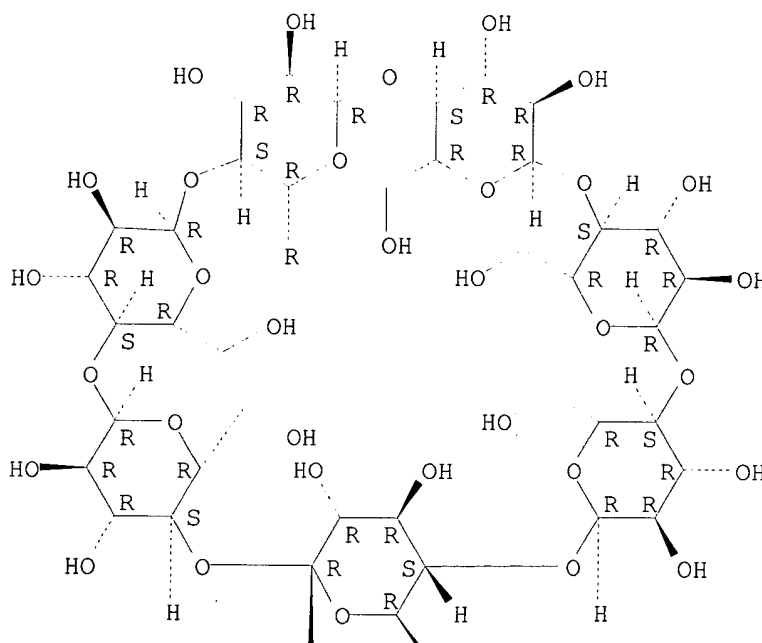
CM 1

CRN 250256-27-0

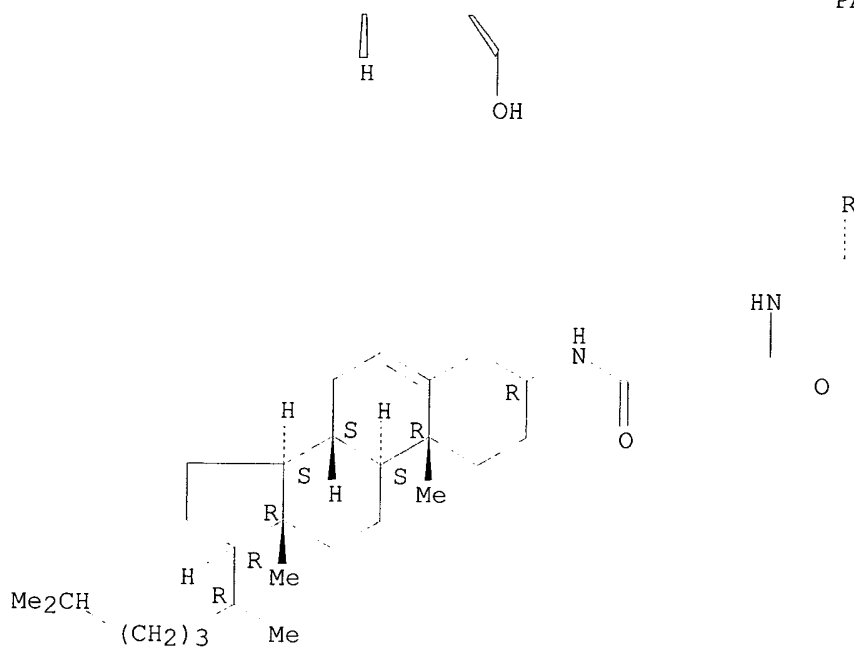
CMF C73 H120 N2 O36

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

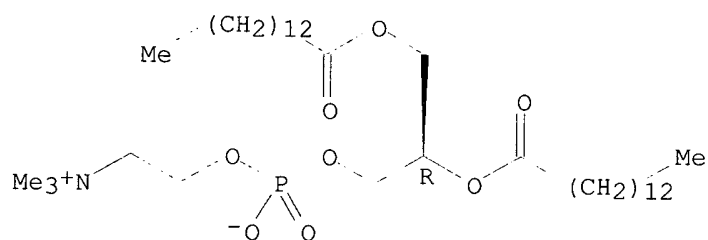


CM 2

CRN 18194-24-6

CMF C36 H72 N O8 P

Absolute stereochemistry.



IT 250256-27-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

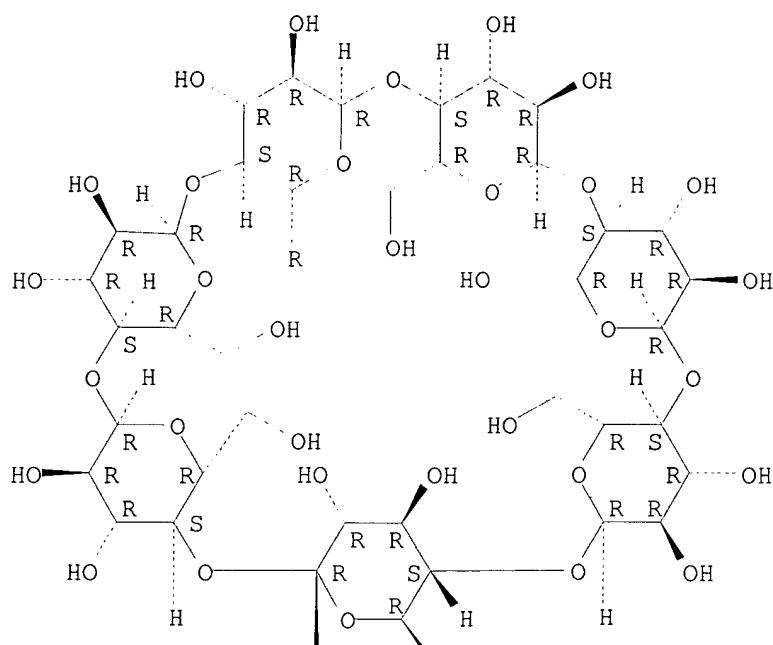
(cholesteryl cyclodextrins synthesis and insertion into phospholipid membranes)

RN 250256-27-0 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[[4-[(3.alpha.)-cholest-5-en-3-ylamino]-1,4-dioxobutyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

